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UNITED STATES DEPARTMENT OF AGRICULTURE

Number 189

January, 1930

INSECTS AFFECTING MAN AND ANIMALS

F. C. Bishopp, in Charge

W. G. Bruce went from Dallas, Tex., to Sanford, Fla., in the first week of January, where he has undertaken a survey of conditions relating to the cattle grub.

F. C. Bishopp attended the meeting of the American Association of Economic Entomologists at Des Moines, Iowa, at holiday time, and early in January went from there to the region of Sheboygan Falls, Wis., where he conferred with county agents and addressed meetings of farmers in regard to control of the cattle grub. He also conferred with the county agent, and with farmers, at Gold Hill, Iowa, concerning a local program for the eradication of horse bots, and returned to Washington January 12.

R. W. Wells, after spending several weeks in Texas, working on the cattle grub, left Dallas on January 11 and drove by auto to his station at Galesburg, Ill., where he arrived January 15. After a few days there he came to Washington for conference and to work up field notes during the remaining days of the month.

From January 20 to January 26 H. S. Peters was engaged upon an investigation of the cattle grub at Burkes Garden, Va., with particular reference to control by local residents. The work was done in cooperation with L. I. Case, Extension Animal Husbandman, V. P. I.

TROPICAL, SUBTROPICAL, AND ORNAMENTAL PLANT INSECTS

A. C. Baker, in Charge

In response to a request from the citrus growers of northern California, E. A. McGregor, of the field laboratory at Lindsay, Calif., went to Oroville, where, on January 16, he addressed the growers on the subject of control of the citrus thrips. This address was a part of the Citrus School program of that date. Particular stress was placed by Mr. McGregor on the part that dusting with finely ground sulphurs is playing in the control of this insect in central California.

STORED-PRODUCT INSECTS

E. A. Back, in Charge

George B. Wagner, in charge of investigations of flour-mill insects, attended the Kansas Wheat Belt Conference held at Wareham Hotel, Manhattan, Kans., on November 9. It was there planned that Mr. Wagner should assist George Montgomery, of the Extension staff of the Kansas State Agricultural College, in the conduct of a number of grain-grading schools to be held in Kansas in April.

From December 16 to December 21 George B. Wagner visited New Orleans and Galveston, to make observations of conditions on docks and ships as affecting export flour. Dr. R. T. Cotton was with Mr. Wagner in New Orleans on December 19 and 20.

W. D. Reed and Austin W. Morrill, jr., of the Dried Fruit Insect Laboratory, have been engaged in an investigation, in California, of such infestations of freight cars as are likely to affect shipments of dried fruits.

R. T. Cotton was in Norfolk, Va., December 8 to 11, on business relating to the fumigation of large wheat-storage bins.

E. A. Back and R. T. Cotton were present January 3 and 4 at an interesting demonstration, in Toledo, Ohio, of a mixture of ethylene oxide and carbon dioxide as a fumigant for wheat in large elevator bins.

The Patterson (Calif.) Farm Bureau Center sponsored a meeting at the Patterson High School building on January 6, largely attended by bean growers, and A. O. Larsen led a discussion on control of the bean weevil.

On January 10 and 11 Perez Simmons and W. D. Reed attended the annual meeting of the Dried Fruit Association of California, held at Del Monte. A paper entitled "The eggs of dried fruit insects and fumigation of eggs of the Indian meal moth" was read, and ordered mimeographed by the Association for distribution among its membership.

E. A. Back was the guest of the National Furniture Warehousemen's Association at its convention held at the Edgewater Gulf Hotel, Biloxi, Miss., January 14 to 18.

Perez Simmons reports that in January 32 persons visited the Dried Fruit Insect Laboratory. Among these were D. H. Mitchell, Plant Superintendent of the Deglet Noor Date Growers Association of Indio; Prof. I. J. Condit, Division of Subtropical Horticulture, University of California; A. Nadir Bey, of Turkey; C. D. Fisher, Chemist, Dried Fruit Association of California; J. G. Brown, Chemist, Sun-Maid Raisin Growers Association, and C. N. Parnell, of the Pink-Bollworm Section, Plant Quarantine and Control Administration.

DECIDUOUS-FRUIT INSECTS

A. L. Quaintance, in Charge

Dr. B. A. Porter attended the meeting of the Massachusetts Fruit Growers Association, at Worcester, Mass., January 8, and discussed two important New England fruit insects--the plum curculio as a pest of apple, and the apple maggot. He also attended a meeting of fruit growers at Crozet, Va., January 17, in company with Prof. W. J. Schoene, and L. R. Cagle, A. M. Woodside, and R. H. Hurt, of the Virginia Agricultural Experiment Station. This meeting was held for the purpose of discussing measures to be employed in cleaning up a severe infestation of the curculio, which caused serious losses the previous season in the peach orchards in the vicinity of Crozet.

E. J. Newcomer, in charge of the field laboratory at Yakima, Wash., arrived in Washington January 31, to go over plans for the coming season's work. While in Washington he will attend the codling moth and oriental peach moth conference on February 10.

On the night of January 7 Oliver I. Snapp gave an address on "The present status of our knowledge of curculio control" at the thirty-second annual meeting of the Maryland State Horticultural Society, in Baltimore. He stopped in Washington for conference before returning to his headquarters at Fort Valley, Ga.

Contributions from the Japanese-Beetle Laboratory

On January 16 Edward Behre and H. J. MacAloney, Forest Service, Amherst, Mass., visited the Japanese-Beetle Laboratory to confer with members of the soil-insecticide division on the use of arsenate of lead in forest-tree seed beds, as a control for white grubs.

On January 22 Prof. John Gray, of the University of Florida, visited the Laboratory. Professor Gray was interested in the work in general.

On January 24 Dr. Bentley B. Fulton, Entomologist, North Carolina State College of Agriculture, visited the Laboratory, and was much interested in the rearing equipment of the parasite division. Doctor Fulton also spent some time at the Academy of Natural Sciences of Philadelphia.

R. J. Sim, Agent, spent January 22, 23, and 24 in Washington, conferring with Dr. E. A. Chapin and other coleopterists on Scarabaeid beetles.

On January 27, 28 and 29 Dr. H. W. Allen was in Washington, compiling notes on the oriental peach moth and conferring with experts in the United States National Museum.

TAXONOMY

Harold Morrison, in Charge

Auburn E. Brower, of the department of entomology, Cornell University, Ithaca, N. Y., came to Washington December 27, and spent several days in the section of Lepidoptera.

Homer C. Will, of the laboratory of entomology, Carnegie Museum, Pittsburg, Pa., who this year has the Carnegie fellowship in entomology and is pursuing graduate studies at the University of Pittsburgh, spent January 3 and 4 in the National Museum examining North American sawflies, particularly of the families Pamphilidae and Tenthredinidae.

Anthony Spuler, of the Washington State Experiment Station, at Wenatchee, called at the Division of Insects on January 4 to look over the collection of Diptera.

F. Martin Brown, of Avon, Conn., came to Washington early in January and spent three days studying the National collection of Pieridae and consulting with the Bureau lepidopterists.

R. J. Sim, of the Bureau's Japanese and Asiatic beetle laboratory at Moorestown, N. J., spent January 22 to 24 in the section of Coleoptera comparing material, both adult and larval forms, of the family Scarabaeidae.

Dr. B. B. Fulton, of the North Carolina Agricultural Experiment Station, at Raleigh, spent January 21 to 25 examining material in the collection of Orthoptera, with reference to a revision of the Orthoptera of Oregon.

Dr. W. Judson Coxey, of the Academy of National Sciences, Philadelphia, Pa., came to Washington January 23 to consult with the Bureau specialists in Lepidoptera.

Alan Nicolay, of Montclair, N. J., spent January 24 and 25 examining Coleoptera in the Casey collection.

K. A. Salman, of the department of entomology, Massachusetts Agricultural College, at Amherst, visited the taxonomic unit January 25.

E. V. Walter, of the bureau's field laboratory at San Antonio, Tex., called at the taxonomic unit January 27 to consult the specialists in parasitic Hymenoptera regarding the parasites of the sorghum midge.

Dr. H. W. Allen, of the Bureau's peach-insect laboratory, at Moorestown, N. J., spent January 27 to 29 in the taxonomic unit consulting the specialists in parasitic Hymenoptera about the names of parasites of the oriental peach moth. He also examined certain wasps of the genus *Tiphia* in the National collection.

H. J. Reinhard, of the Texas Agricultural Experiment Station, at College Station, has been engaged at the Museum since January 25 on a study of the North American species belonging to the tachinid genus *Winthemia*. Before leaving Washington he expects to make substantial progress in a classification of these flies.

TRUCK-CROP INSECTS

J. E. Graf, in Charge

After attending the scientific meetings at Des Moines, Iowa, in the holiday season, Walter Carter, in charge of the field laboratory at Twin Falls, Idaho, visited Washington, D. C., January 3 to 9, for consultation and to discuss, with workers in the Bureau of Plant Industry and others, matters dealing with the cooperative work on the sugar-beet leafhopper. He returned to Twin Falls on January 14, via St. Paul, Minn., where he conferred with Dr. R. N. Chapman and others.

D. E. Fink, in charge of the field laboratory at Philadelphia, Pa., advises that Dr. Jaymie R. Peirera, Professor of Pharmacology of Sao Paulo Medical School, Sao Paulo, Brazil, visited his laboratory on January 13, to obtain first-hand knowledge of the "Electro-Gutzeit Apparatus" perfected at this laboratory. This apparatus has been the subject of inquiry from State experiment stations, entomologists, chemical companies, and the Research Institute, Melbourne, Australia. Word has been received that Dr. N. F. True, chief chemist for Mead, Johnson & Co., Evansville, Ind., has had a similar apparatus constructed for work in infant diet.

R. W. Brubaker, a senior student of Ohio State University, has been appointed Field Assistant in investigations of mushroom insects at Arlington, Va.

COTTON INSECTS

B. R. Coad, in Charge

T. C. Barber, in charge of the field laboratory at Brownsville, Tex., spent several days in the latter part of January at Tallulah, La., in conference with B. R. Coad on research on the flea hopper in the lower Rio Grande Valley.

The appointment of Thos. C. Davis, Field Assistant, was terminated on January 18, and that of Sloan E. Jones on January 31.

BEE CULTURE

Jas. I. Hambleton, in Charge

C. E. Burnside and W. J. Nolan attended the annual meeting of the Maryland State Beekeepers' Association, in Baltimore, on January 8. Doctor Burnside spoke on "The present status of American foulbrood control," and Mr. Nolan gave a talk on "Races of honeybees."

C. W. Cary, Norfolk, Va., visited the Bee Culture Laboratory on January 10, after attending the meeting of the Maryland State Beekeepers' Association, January 8.

W. J. Nolan attended the annual meeting of the New Jersey State Beekeepers' Association, at Trenton, on January 16 and 17, and spoke on "The United States honey grades," and "The work of the Bee Culture Laboratory." On January 21 and 22 he attended the annual meeting of the Pennsylvania State Beekeepers' Association, at Harrisburg, where he gave a talk on "Characteristics of the various races of honeybees," and also acted as judge of the apiary products at the Farm Show.

Dr. W. C. Jacobsen, Chief of the Bureau of Plant Quarantine and Pest Control, of the California Department of Agriculture, was a visitor at the Bee Culture Laboratory on January 25.

J. E. Eckert, of the Intermountain Bee Culture Field Laboratory, Laramie, Wyo., attended the holiday meetings of the American Association for the Advancement of Science, at Des Moines, Iowa.

A. P. Sturtevant, of the Intermountain Bee Culture Field Laboratory, Laramie, Wyo., attended the meeting of the Iowa State Beekeepers' Association, and the Iowa Short Course, at Ames, on January 28 to 31. Doctor Sturtevant spoke on "The brood diseases of bees," and on certain special work being conducted by the laboratory at Laramie.

CEREAL AND FORAGE INSECTS

W. H. Larrimer, in Charge

The grasshopper project has been reorganized, and Doctor J. R. Parker, formerly connected with the Department of Entomology of the Montana Agricultural College and Experiment Station at Bozeman, Mont., has been placed in charge of this work. The laboratory at Billings, Mont., is being moved to Bozeman, where Doctor Parker will have his headquarters.

E. V. Walter, in charge of the field laboratory at San Antonio, Tex., spent January in the Washington office for consultation with Bureau officials and for attention to the preparation, in collaboration with V. L. Wildermuth, of a manuscript of a Technical Bulletin on Aphis maidis.

Stuart L. O'Byrne has accepted a three months' appointment as Field Assistant at the field laboratory at Webster Groves, Mo.

L. H. Patch, in charge of the sublaboratory at Sandusky, Ohio, was in the Washington office on January 16 and 17 for consultation regarding the preparation of a manuscript on the experimental determination of damage by the corn borer.

F. F. Dicke has accepted a transfer from the corn-borer laboratory at Monroe, Mich., to the field laboratory at Charlottesville, Va., where he will assist in investigations of the jointworm.

George G. Ainslie, of the field laboratory at West Lafayette, Ind., is spending several weeks in Washington, at the National Museum, working on the North American Crambidae.

LIBRARY

Mabel Colcord, Librarian

NEW BOOKS

Bainbridge, J. S.

Home pests and their destruction. 94 p., illus. London, W. Heinemann, 1929. (References, p. 88-89.)

Bondar, Gregorio.

Insects damninhos e molestias da laranjeira no Brasil. 79 p., pl. (Bahia. Sec. da Agricultura, Industria, Comercio, Viacao e Obras Publicas. Boletim do Laboratorio de Pathologia Vegetal Num. 7.)

Broadfoot, H.

Advice to fruit growers, with a calendar of orchard work. 41 p., illus. Sydney, Oct., 1929. (New South Wales Dept. Agr. Farm. Bul. No. 164.)

Brolemann, H. W.

Myriapodes recueillis au Bresil par M. Caullery. 37 p., illus. Paris, Au siège de la Société Zoologique de France, 1929. (Mém. Soc. Zool. France, t. 29, No. 1, Dec. 20, 1929.)

The cattle tick pest and methods for its eradication. 32 p. Melbourne, H. J. Green, Government Printer, 1929. (Australia. Council for Scientific and Industrial Research. Pam. No. 12.)

Dodd, A. P.

The progress of biological control of prickly pear in Australia. 44 p. Brisbane, A. J. Cumming, Government Printer, Oct., 1929. At head of title: Commonwealth Prickly Pear Board.

Dognin, Paul.

Hétérocères nouveaux l'Amérique du Sud . . . fasc. 1-25. Rennes, Imprimerie Oberthur, 1910-1923. (Wanting: fasc. 18.)

Edwards, Tickner.

The lore of the honey-bee. 196 p. London, Methuen & Co., Ltd., 1929.

- Fourth International Congress of Entomology, Ithaca, August, 1928. Transactions, vol. II. Edited by K. Jordan and W. Horn. 1037 p., illus. Naumburg a Saale, Gottfr. Pätz, Dec., 1929.
- Iraq Dept. Agriculture.
Leaflets 14 and 16, Baghdad, Government Press, 1927. Contents: 14. Aphids. 6 p., illus.; 16. Some of the commoner garden pests of Iraq. 6 p., 4 pl.
- Monzen, Kota.
Studies on some gall producing aphides and their galls. 80 p., 17 pl. Sendai, Japan, General Dept. Sci. Research Saito Ho-On Kai, May, 1929. (Saito Ho-On Kai (The Saito Gratitude Foundation) Monograph No. 1.)
- Naudé, T. J.
Cicadellidae of South Africa. A taxonomic and faunistic study. 106 p., 9 pl. Cape Town, Cape Times Limited, 1926. (South Africa Dept. Agr. Entom. Mem. 4.) (Bibliography, p. 105-106.)
- Nichols, H. A. A.
A text-book of tropical agriculture . . . Rev. by John Henry Holland . . . with a foreword by Arthur W. Hill . . . 639 p., illus. London, Macmillan Co., limited, 1929. (General references, p. 106.)
- Ramme, Willy.
Afrikanische Acrididae. Revisionen und Beschreibung wenig bekannter und neuer Gattungen und Arten. 297-492 p., illus. Berlin, Verlag des Museums, Sept., 1929. (Berlin. Zool. Mus. Mittheilungen, Bd. 15, Hft. 2.)
- Shen, C. J.
Description of a new Isopoda [*Dynoides dentisianus*] from the coast of North China. Fan. Memorial Institute, Peiping, China. Bul. 1, No. 4, p. 65-78, illus., Sept. 21, 1929.
- Strachan, J., and Taylor, T. H.
The potato eelworm [*Heterodera schachtii*]. 14 p., illus. Leeds, Jowett & Sowry, 1929. (Leeds Univ. & Yorkshire Council for Agricultural Education [Bul.] 159.)
- Die Tierwelt Mitteleuropas, hrsg. von P. Brohmer, P. Ehrmann, G. Ulmer. Insekten, 1 th. Leipzig, Quelle u. Meyer, [1929]. Contents: Ephemeroptera. Georg Ulmer. 43 p., illus.; Odonata. Erich Schmidt. 66 p.
- Tillyard, R. J.
The work of the Division of Economic Entomology for the year 1928-29. 19 p. Melbourne, Government Printer, 1929. (Australia. Council for Scientific and Industrial Research. Pam. 15.)
- Uvarov, B. P.
Weather and climate in their relation to insects. 20 p. London, H. M. Stationery Office, 1929. (Bibliography, p. 19-20.) At head of title: Conference of Empire meteorologists 1929. Agricultural section.
- Warder, Joseph.
The true Amazons: or the monarchy of bees . . . Ed. 7. 163 p., port. London, Printed for T. Longman, 1742.
- Winkler, A.
Catalogus coleopterorum regionis palaearcticae, pt. 10. p. 1128-1263. Wien, Winkler, 1929.
- Zoological record, v. 65 . . . 1928. Ed. by W. L. Sclater. Various paging. London, printed for the Zoological Society, 1929.

BUSINESS ADMINISTRATION

P. B. A. Circular No. 140, January 9, 1930.

Express Bills of Lading and Charge Slips.

Paragraph 93 of the Fiscal Regulations of the Department in the part dealing with payment by employees of express charges directs that the receipts taken show "articles, weight, rate, scale, number, starting point, destination, and value declared if any." The paragraph is perhaps incomplete in that it does not indicate that the same information, except rate and scale number where it is impracticable to obtain them, should invariably be entered on the bill of lading or charge slip. Omissions by employees of the Department of some or all of these items have been repeatedly called to the attention of the Department by the general auditor of the Railway Express Agency, Inc. It should be borne in mind that in the General Accounting Office audit of the express agency's bills the description of article, weight, points between which shipped, and valuation are rigorously checked against the bills of lading or charge slips, and the accounts can not be passed unless these items appear on the paper filled out by the Department officer. Delayed settlements, correspondence, and the inconvenience of hunting up information when the transaction is no longer recent, can therefore be avoided by attention to this detail.

The full cooperation in this matter of all members of the Department having to do with express shipments is requested.

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Duty of the Field Service of all Bureaus and Offices of the Department to Area Coordinators and Federal Business Associations

(See Official Record, Vol. 9, No. 4, January 23, 1930, page 5.)

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Bulletin No. 107, Supplement No. 1, Office of the Chief Coordinator

Shipments by Express

(See Official Record, Vol. 9, No. 3, January 16, 1930, page 5.)

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